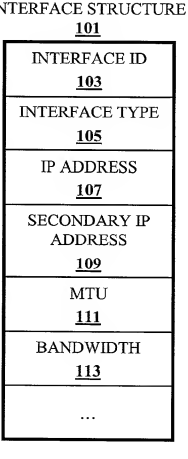

FIG. 1 (PRIOR ART)

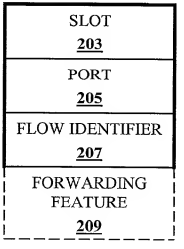
FORWARDING STRUCTURE
201
SLOT
203
PORT
205
FLOW IDENTIFIER
207
FORWARDING FEATURE
209

FIG. 2

forcat:h/3858dt

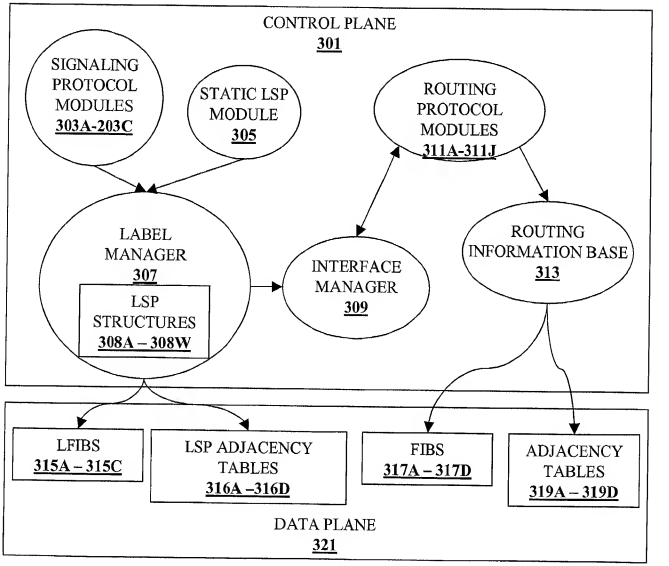

FIG. 3

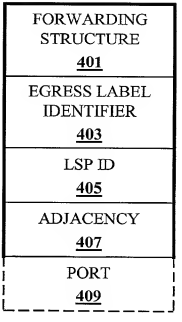
LSP STRUCTURE
308A
FORWARDING STRUCTURE
401
EGRESS LABEL IDENTIFIER
403
LSP ID
405
ADJACENCY
407
PORT
409

FIG. 4

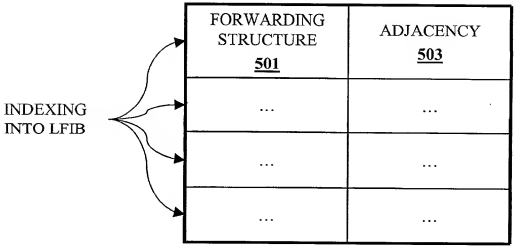
INDEXING INTO LFIB
FORWARDING STRUCTURE
501
ADJACENCY
503
...
...
...
...
...
...
LFIB
315A

FIG. 5A

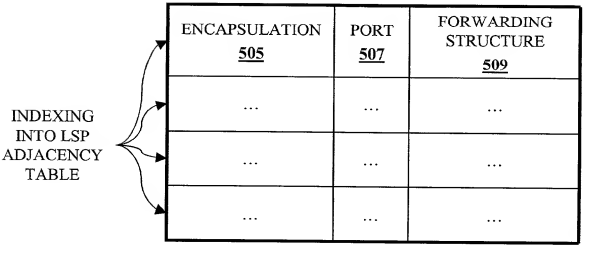
INDEXING INTO LSP ADJACENCY TABLE
ENCAPSULATION
505
PORT
507
FORWARDING STRUCTURE
509
...
...
...
...
...
...
...
...
...
LSP ADJACENCY TABLE
316A

FIG. 5B

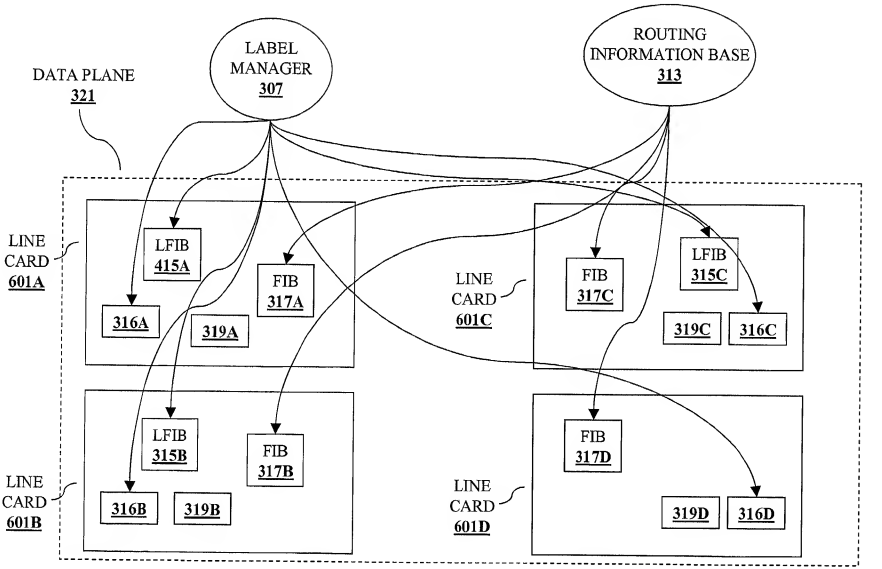
DATA PLANE
321
LABEL MANAGER
307
ROUTING INFORMATION BASE
313
LINE CARD
601A
LFIB
415A
FIB
317A
316A
319A
LINE CARD
601C
FIB
317C
LFIB
315C
319C
316C
LINE CARD
601B
LFIB
315B
FIB
317B
316B
319B
LINE CARD
601D
FIB
317D
319D
316D

FIG. 6

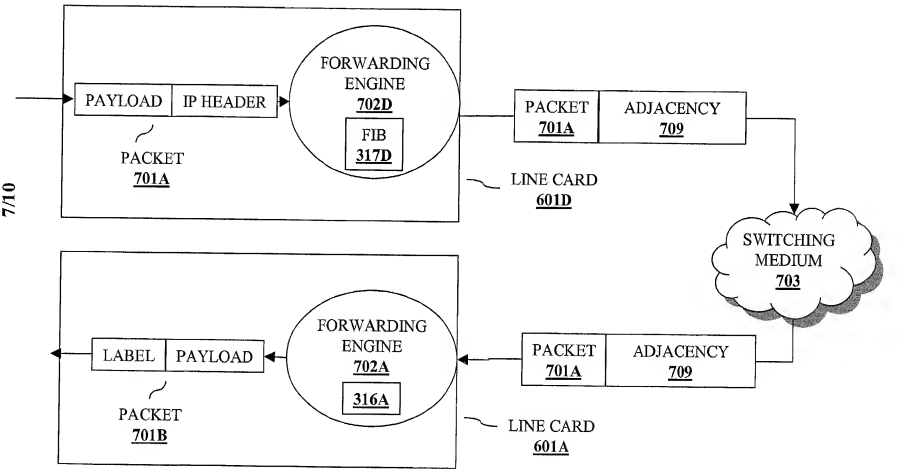
PAYLOAD
IP HEADER
PACKET
701A
FORWARDING
ENGINE
702D
FIB
317D
PACKET
701A
ADJACENCY
709
LINE CARD
601D
SWITCHING
MEDIUM
703
LABEL
PAYLOAD
PACKET
701B
FORWARDING
ENGINE
702A
316A
PACKET
701A
ADJACENCY
709
LINE CARD
601A

FIG. 7A

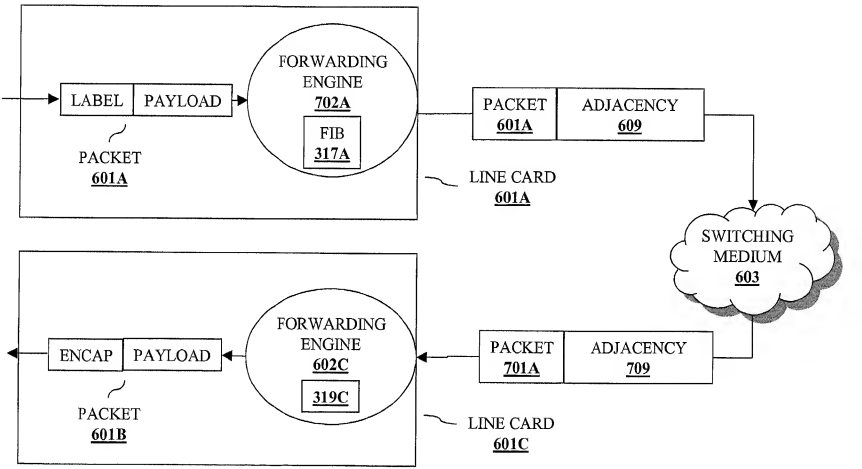
LABEL
PAYLOAD
PACKET
601A
FORWARDING
ENGINE
702A
FIB
317A
PACKET
601A
ADJACENCY
609
LINE CARD
601A
SWITCHING
MEDIUM
603
ENCAP
PAYLOAD
PACKET
601B
FORWARDING
ENGINE
602C
319C
PACKET
701A
ADJACENCY
709
LINE CARD
601C

FIG. 7B

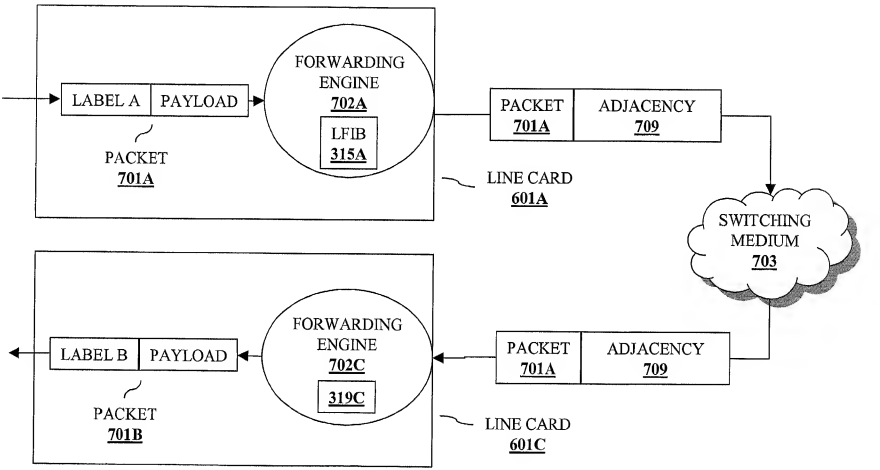
LABEL A
PAYLOAD
PACKET
701A
FORWARDING
ENGINE
702A
LFIB
315A
PACKET
701A
ADJACENCY
709
LINE CARD
601A
SWITCHING
MEDIUM
703
LABEL B
PAYLOAD
PACKET
701B
FORWARDING
ENGINE
702C
319C
PACKET
701A
ADJACENCY
709
LINE CARD
601C

FIG. 7C

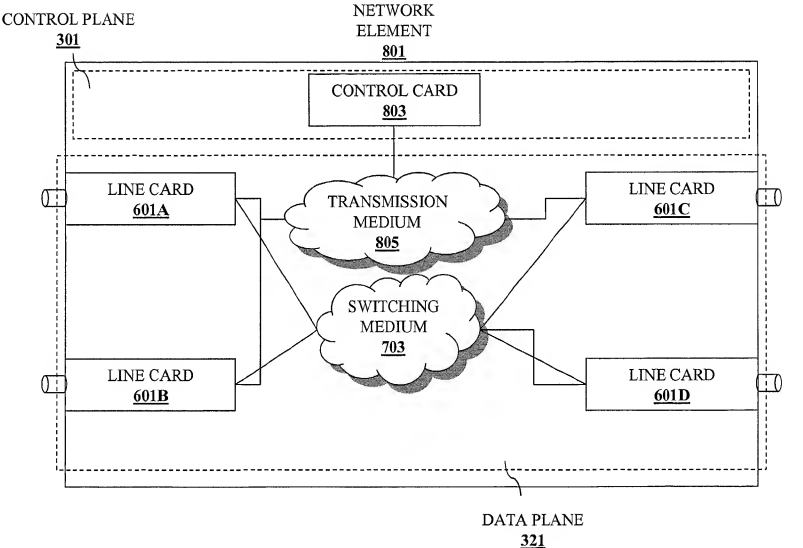
CONTROL PLANE
301
NETWORK
ELEMENT
801
CONTROL CARD
803
LINE CARD
601A
TRANSMISSION
MEDIUM
805
LINE CARD
601C
SWITCHING
MEDIUM
703
LINE CARD
601B
LINE CARD
601D
DATA PLANE
321

FIG. 8